

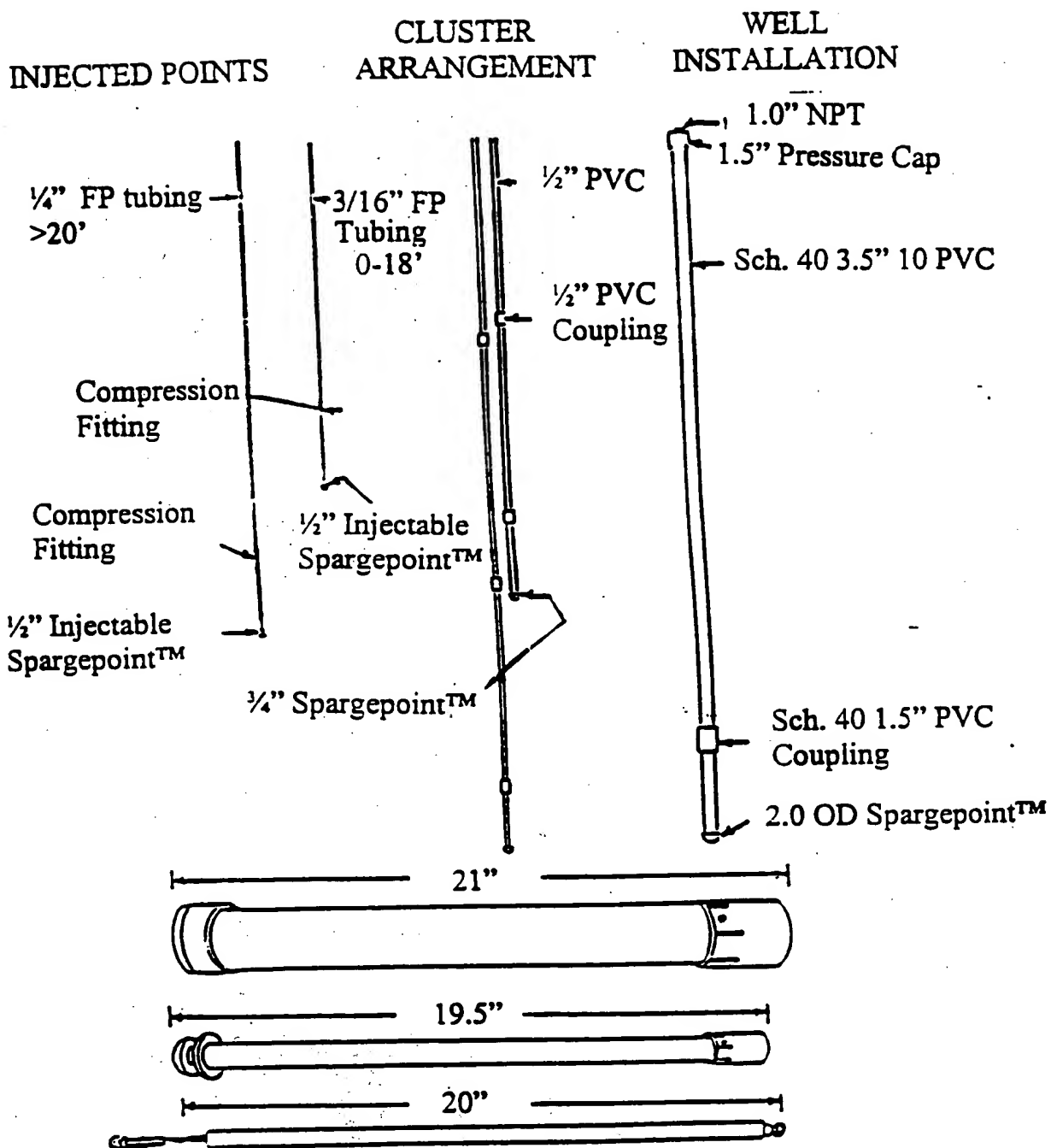
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Permeability of Glass Beads Compared  
with Permeability of Soil Fractions

Mean Bead Diameter (mm)	Pore Space (microns)	Permeability (Darcy)	Gas Permeability (cm/sec)	Equivalent Soil Classification
2.000	860	1000	1.000	Very coarse sand
1.200	516	250	0.250	Coarse sand
0.655	281	147	0.147	Medium coarse sand
0.327	140	85	0.085	Medium sand
0.167	72	22	0.022	Fine-medium sand
0.083	36	9	0.009	Fine sand
0.041	18	5	0.005	Very fine sand
0.020	9	2	0.002	Very fine silty sand

Modified from Anderson, et.al., 1987<sup>2</sup>

FIG. 9



**FIG. 10**



SPARGEPOINT™ TEST ASSEMBLY  
1/2" OR 3/4" POINT WITH 1 INCH CASING

Zero Air or  
Nitrogen Tank

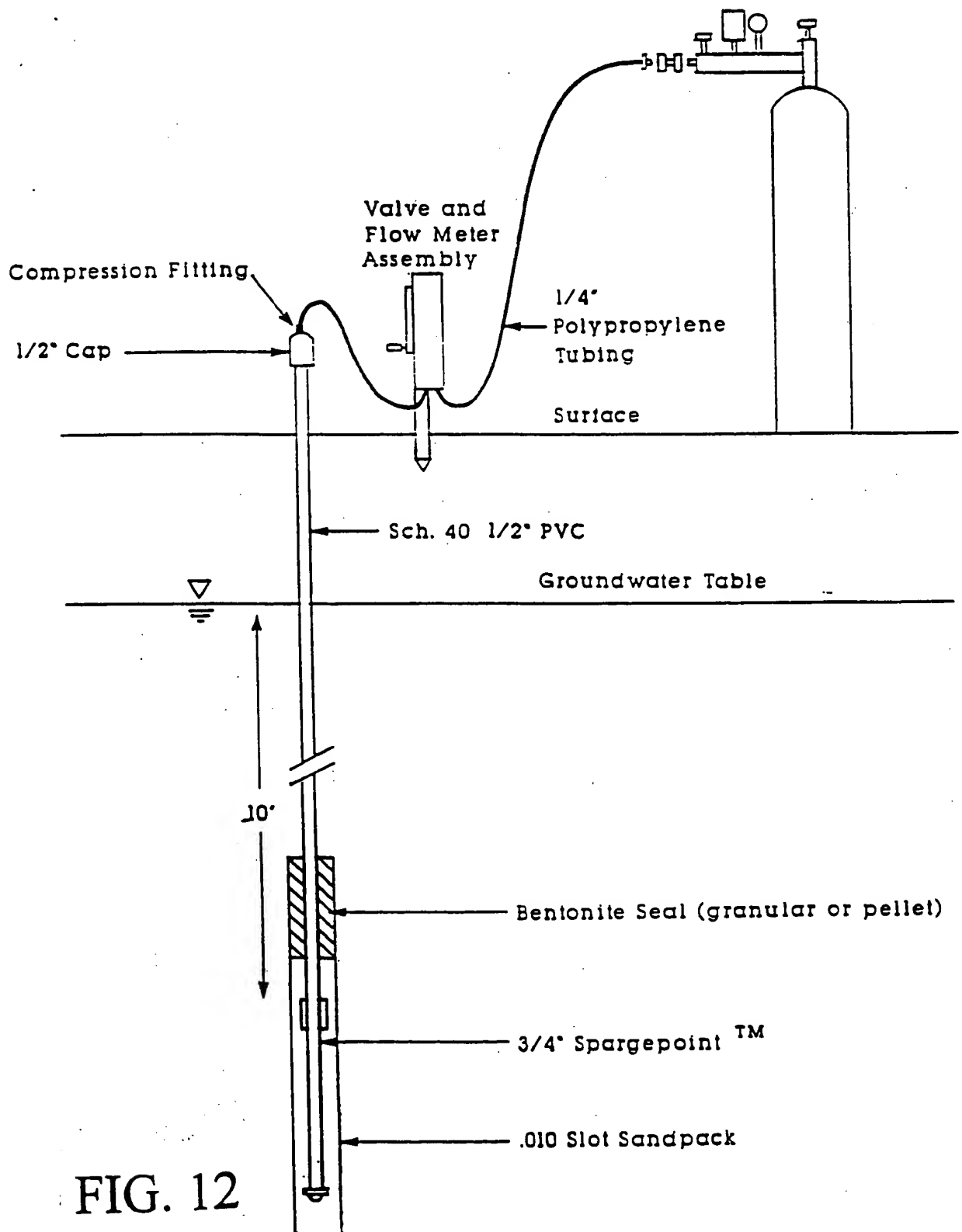


FIG. 12

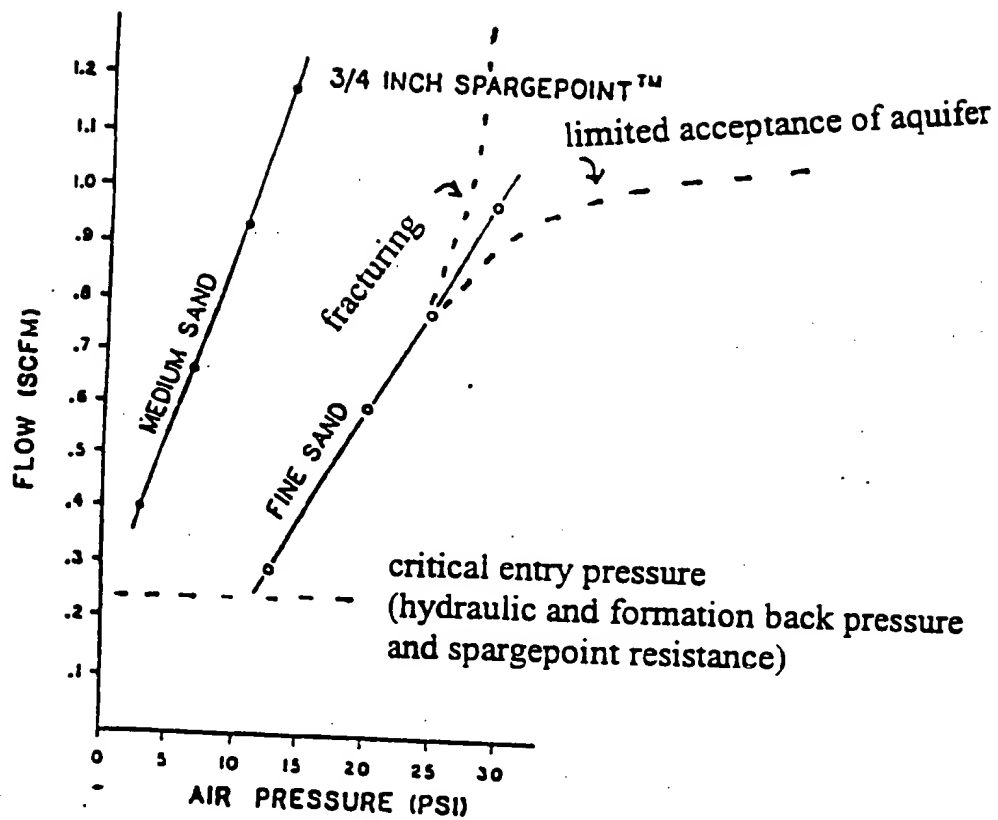


FIG. 13



## SPARGING SYSTEM PLAN

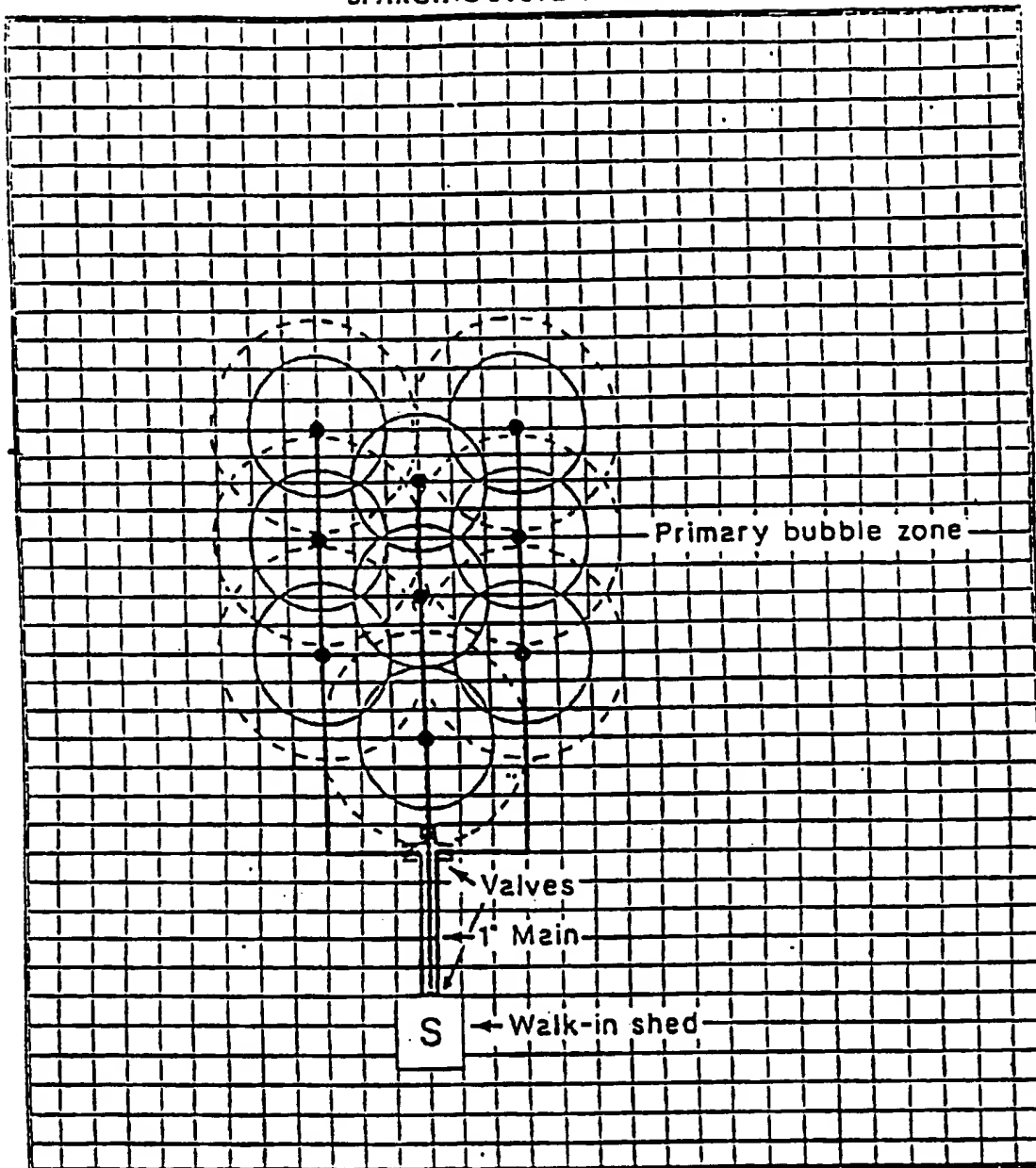
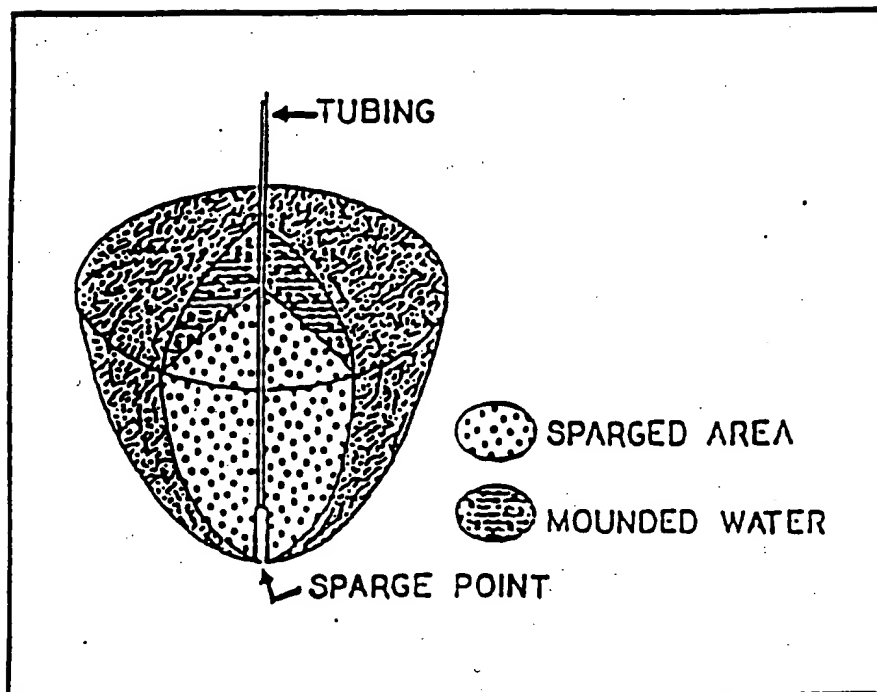
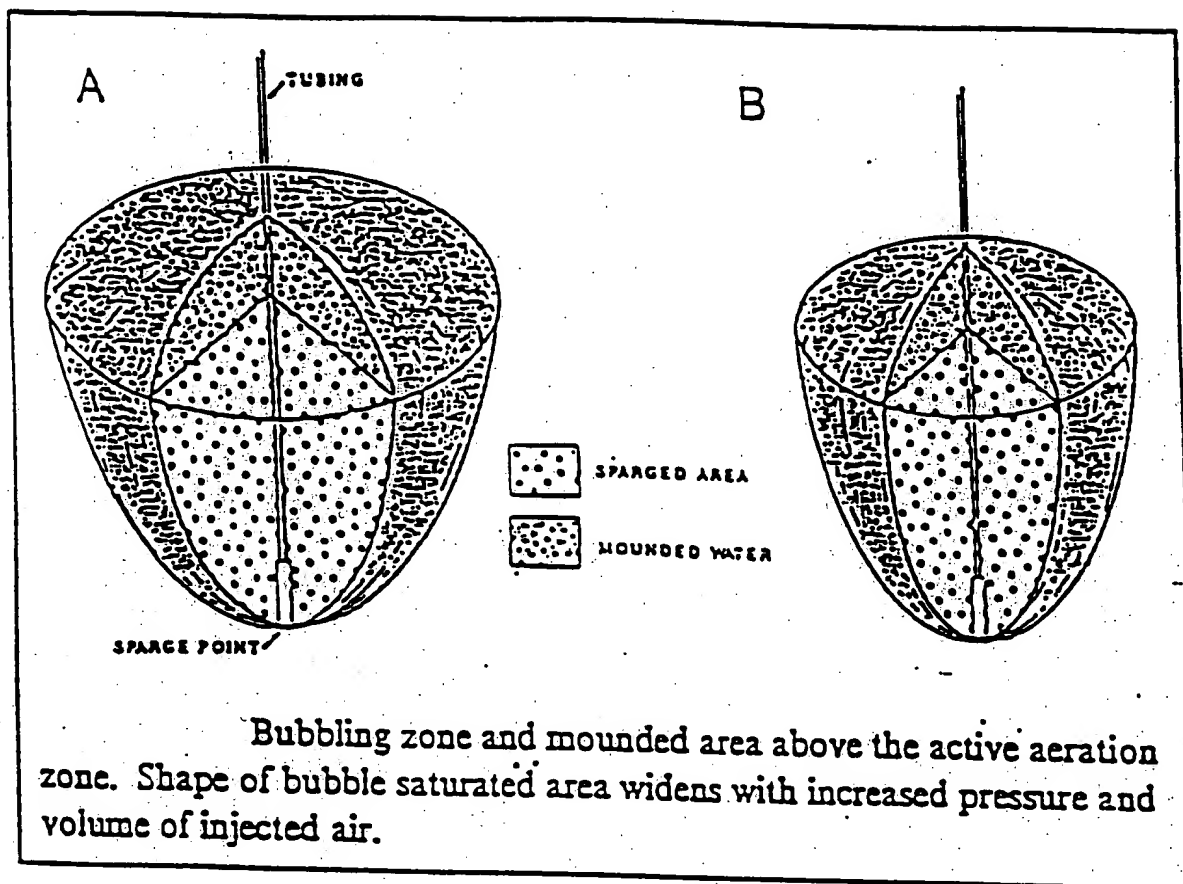
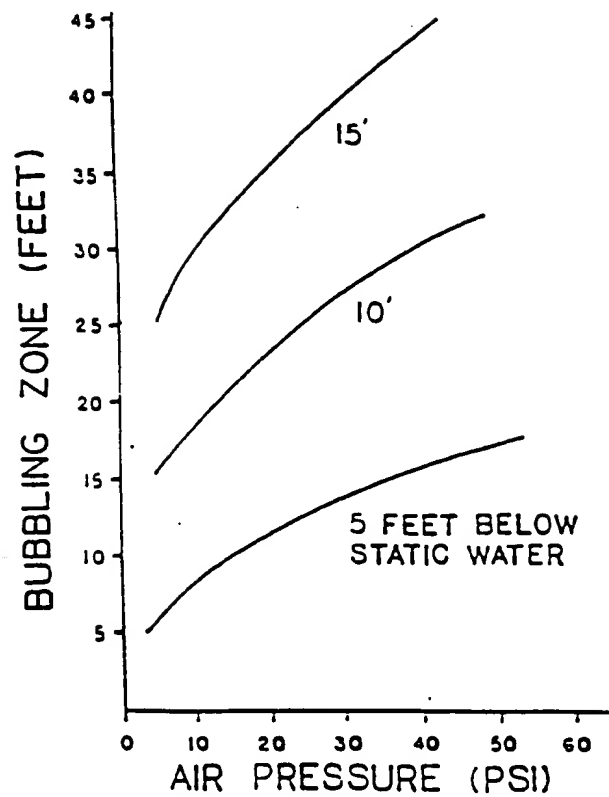
Size of Sparge Area 100 x 150 ftSize of SVE Area 150 x 200 ftUse of Zone Control? 3 zonesSize of SVE System 150 scfmNumber of Spargepoints™ 9Depth to Water 10 ftSoil Conditions MEDIUM SANDType of Contaminant BTEX

FIG. 17

**FIG. 18**

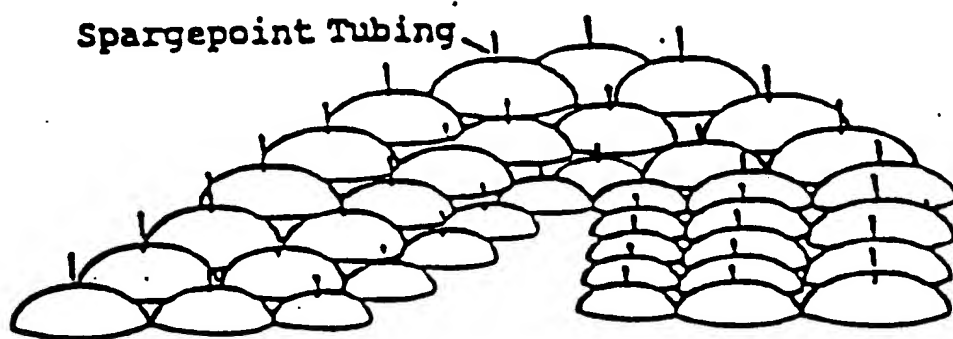
**FIG. 19**

**FIG. 20**





Sequential rise in water table from bubbling. Concentric zones permit containing Any floating contaminant.



**FIG. 21**



Sequential rise in water table from bubbling. Concentric zones permit containing any floating contaminant.

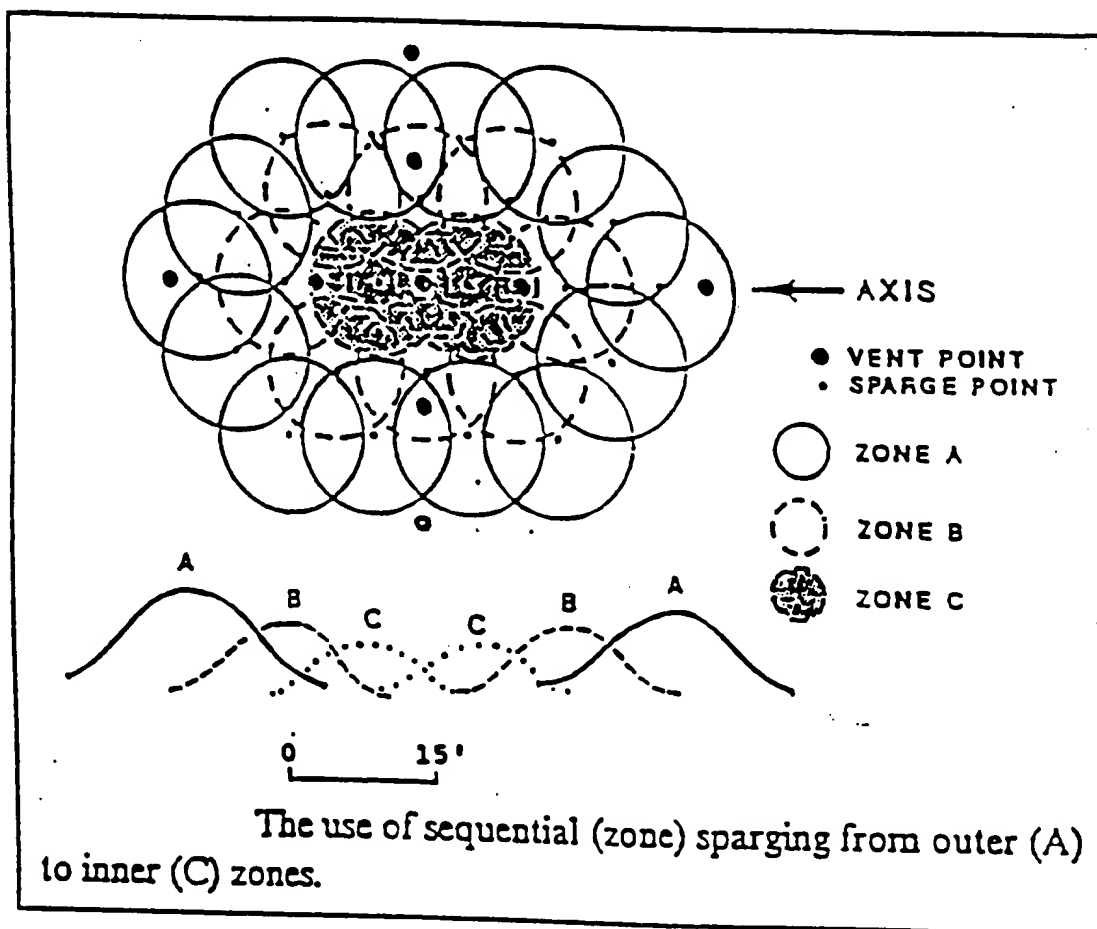


FIG. 22

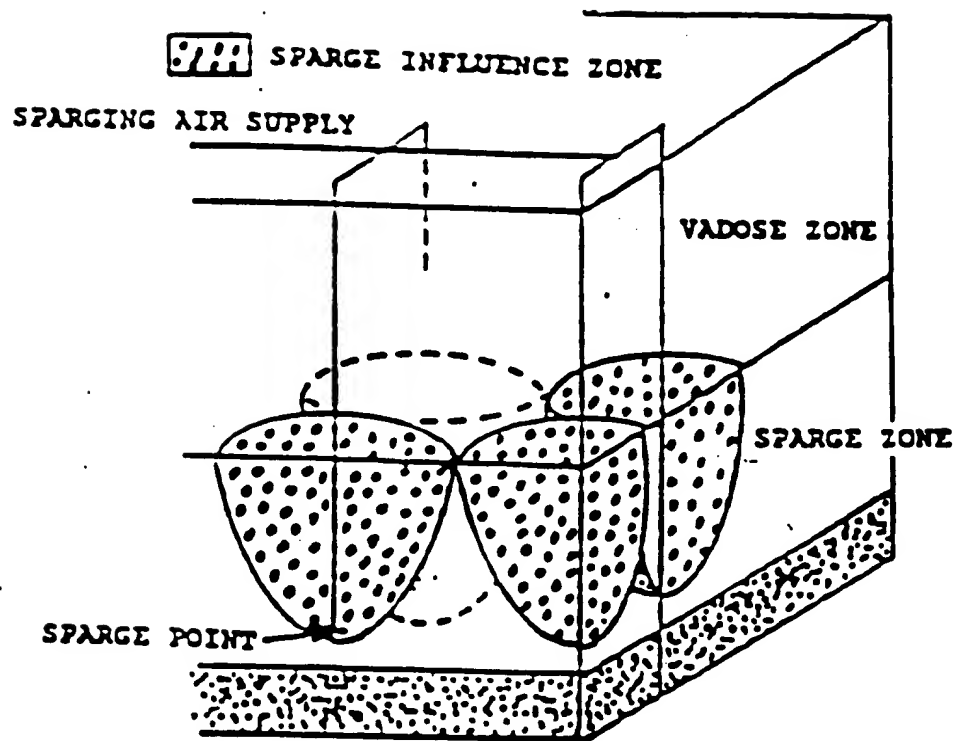
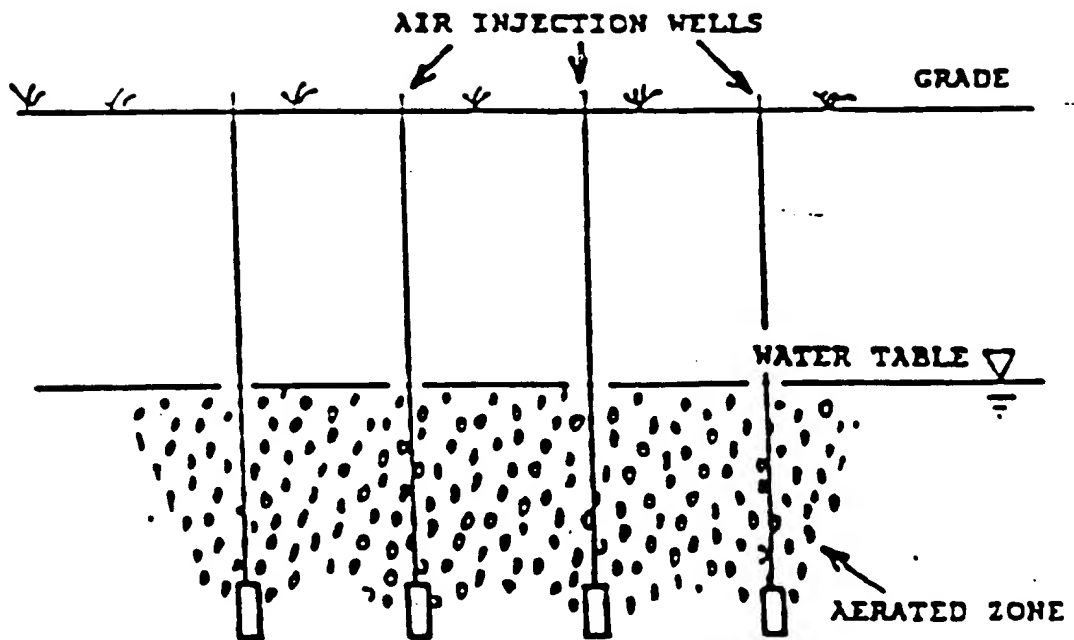
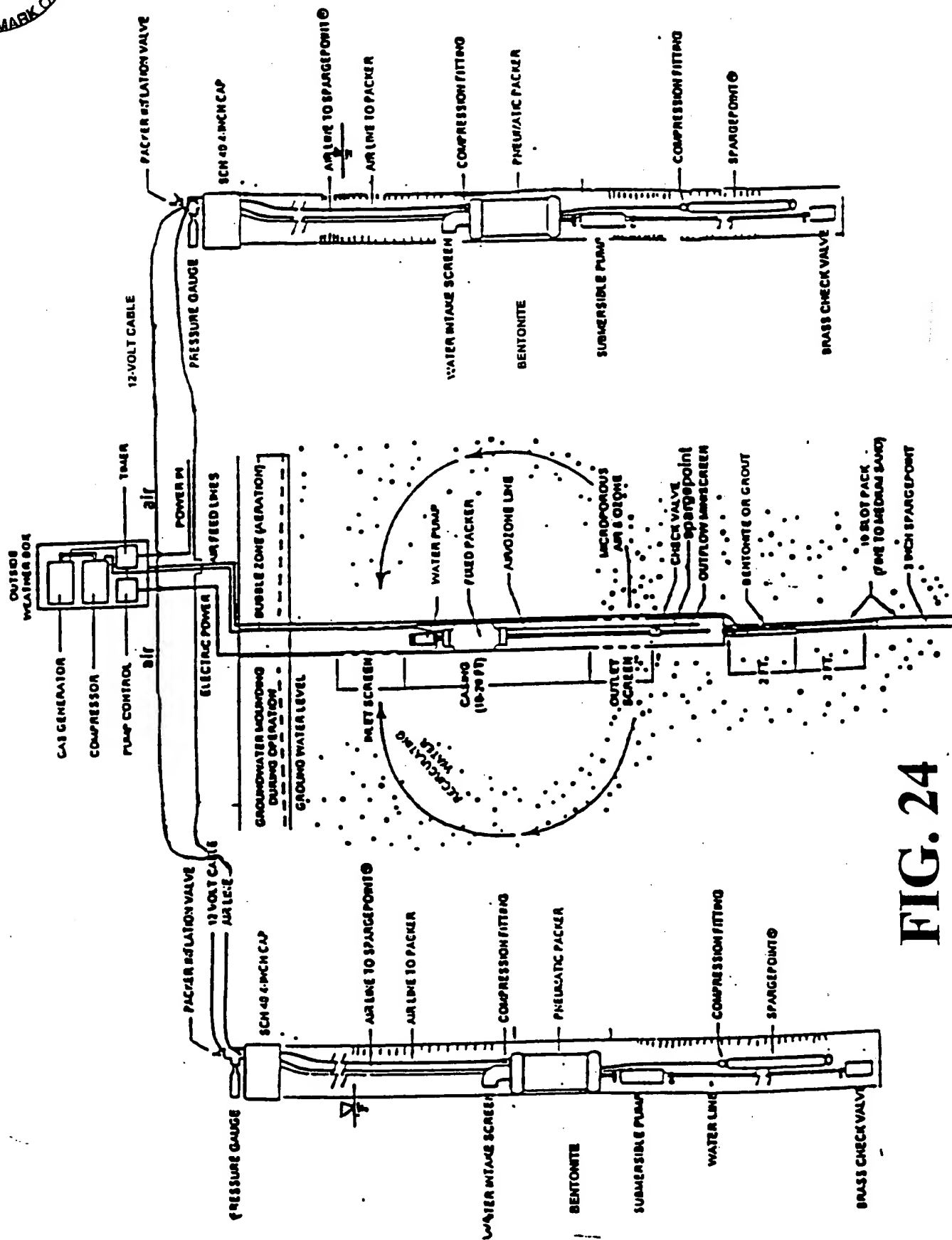


FIG. 23A

**FIG. 23B**



**FIG. 24**

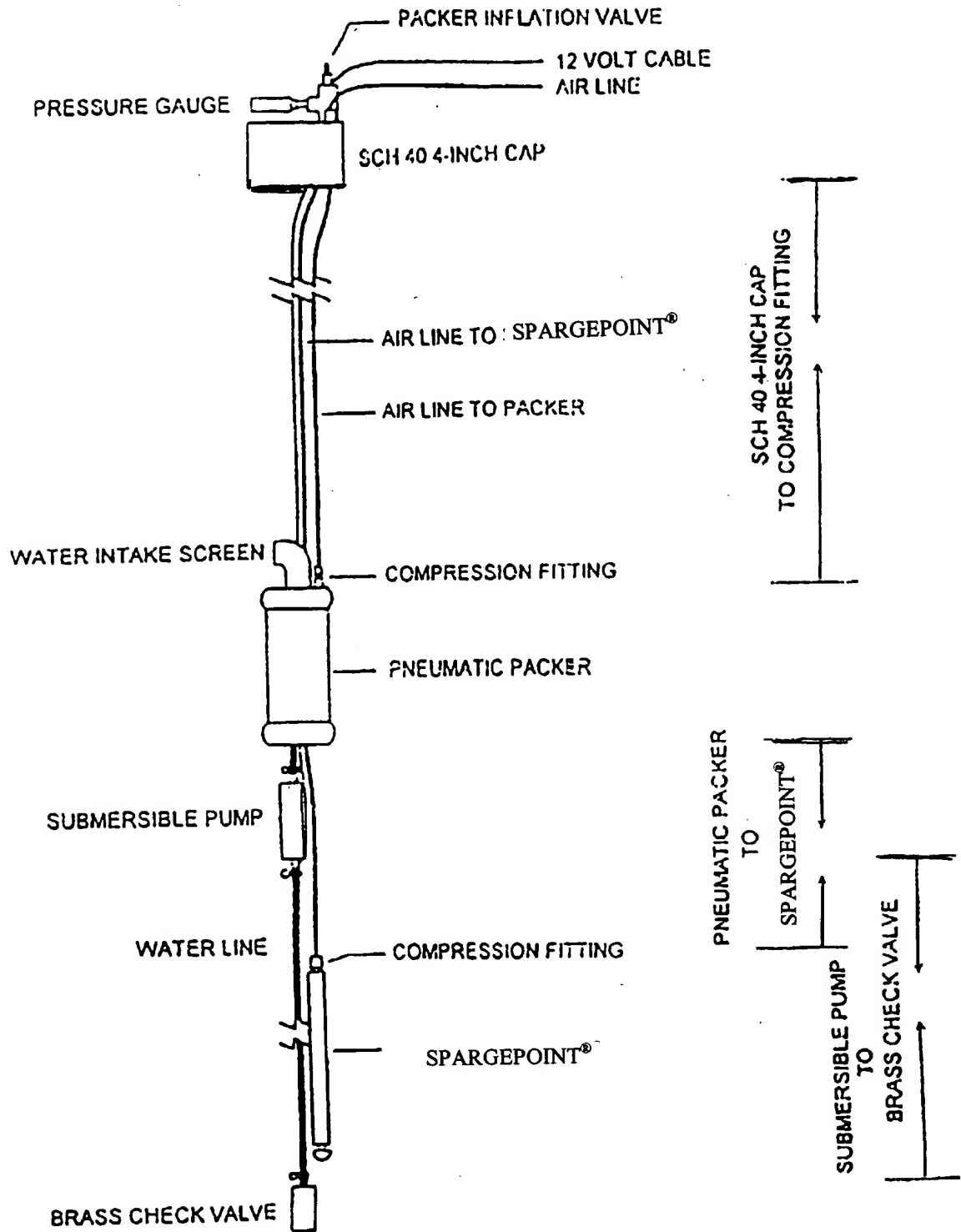
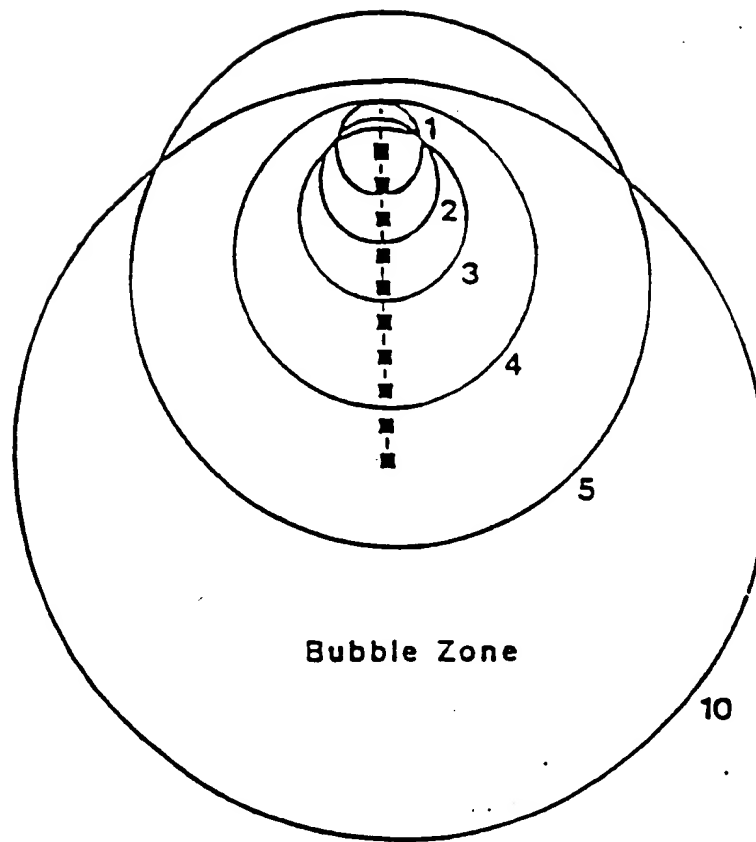
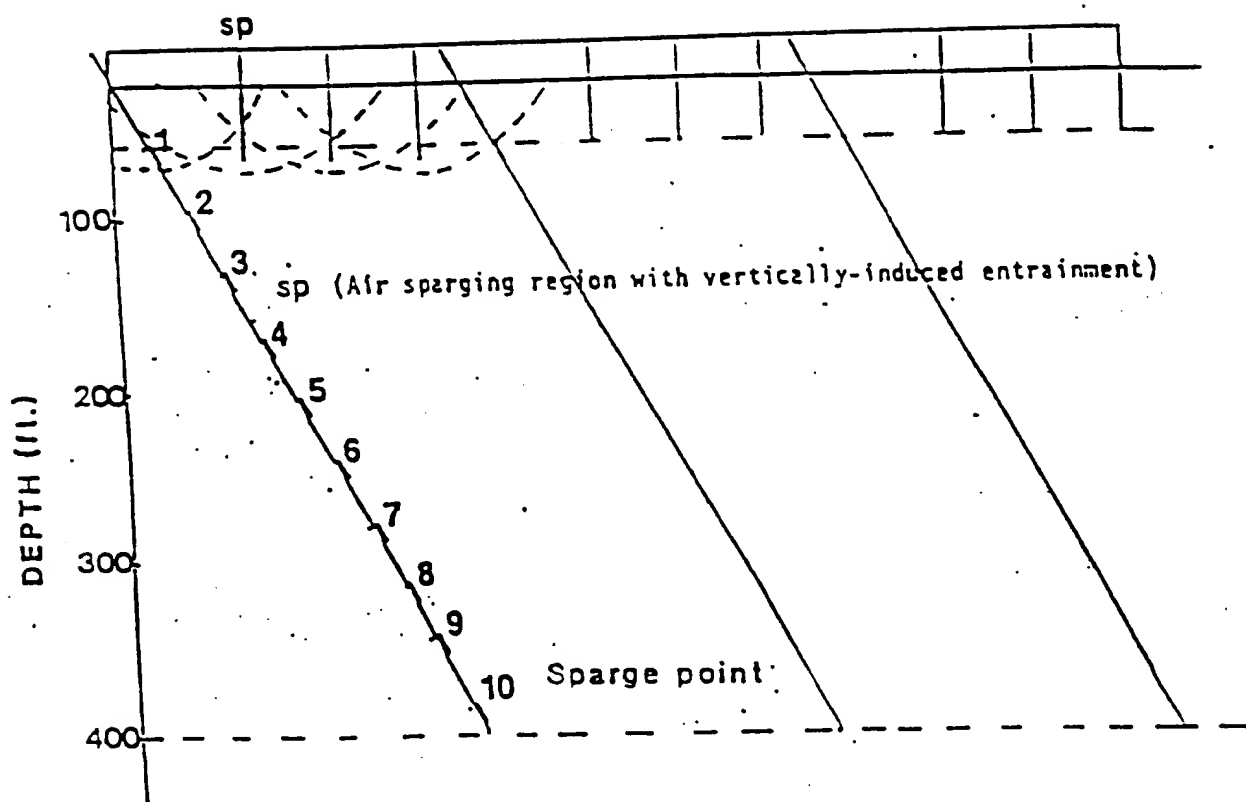


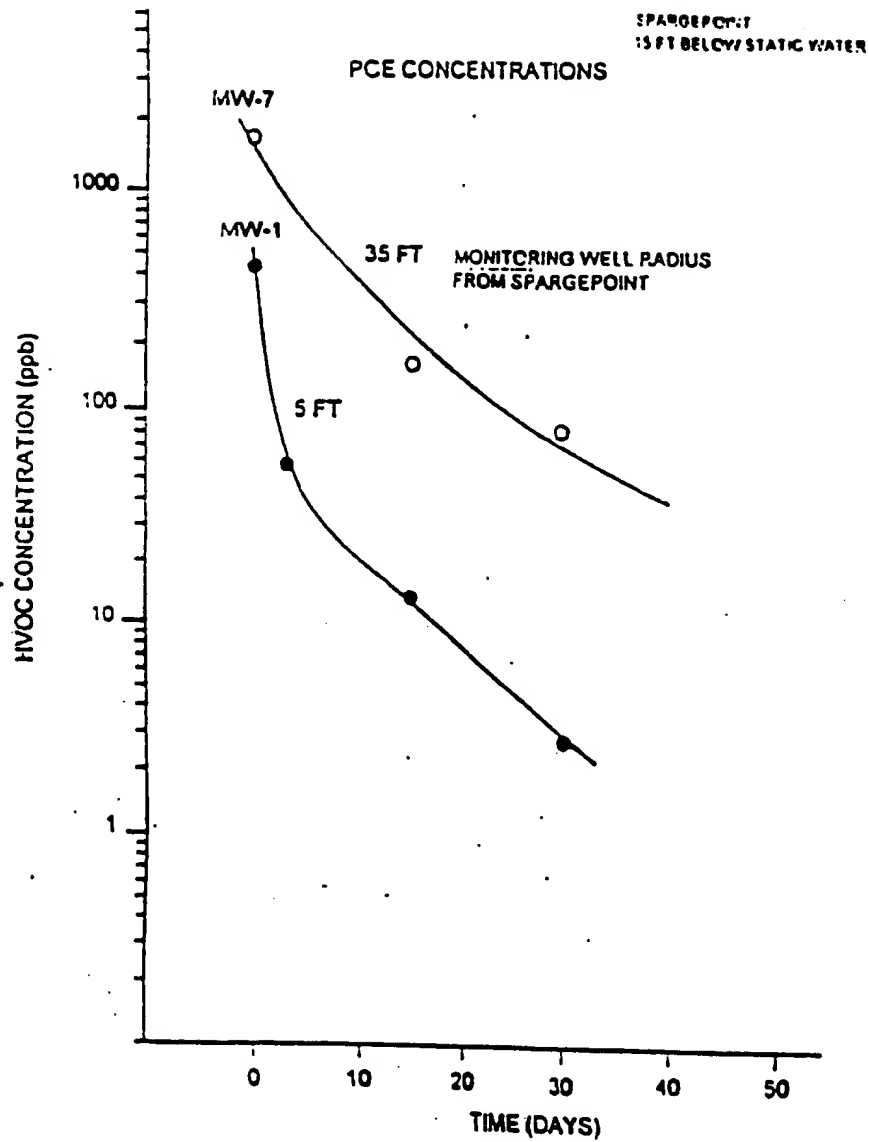
FIG. 25



**FIG. 26**

**FIG. 27**



**FIG. 28**

## OZONE AQUEOUS REACTIONS

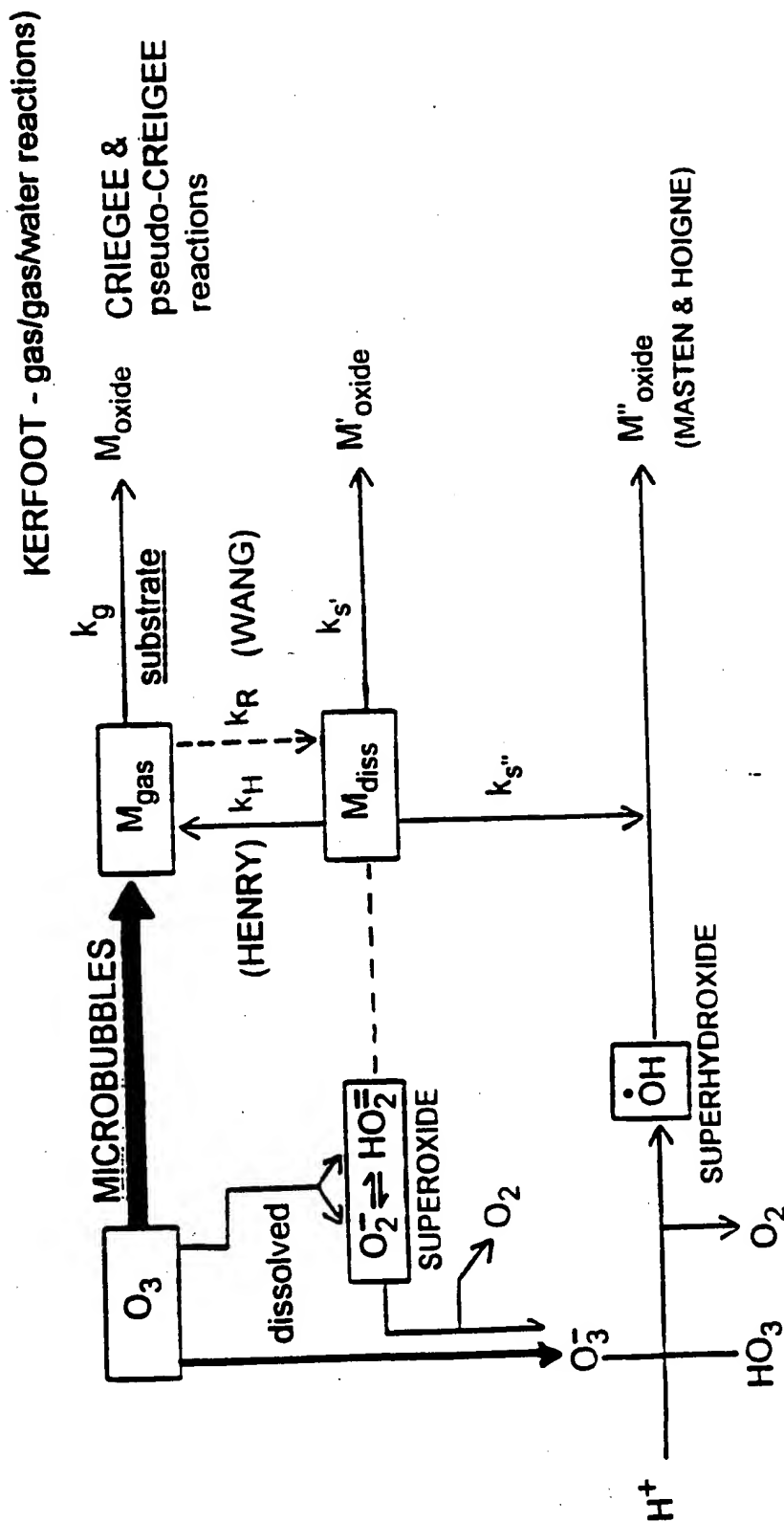


FIG. 33



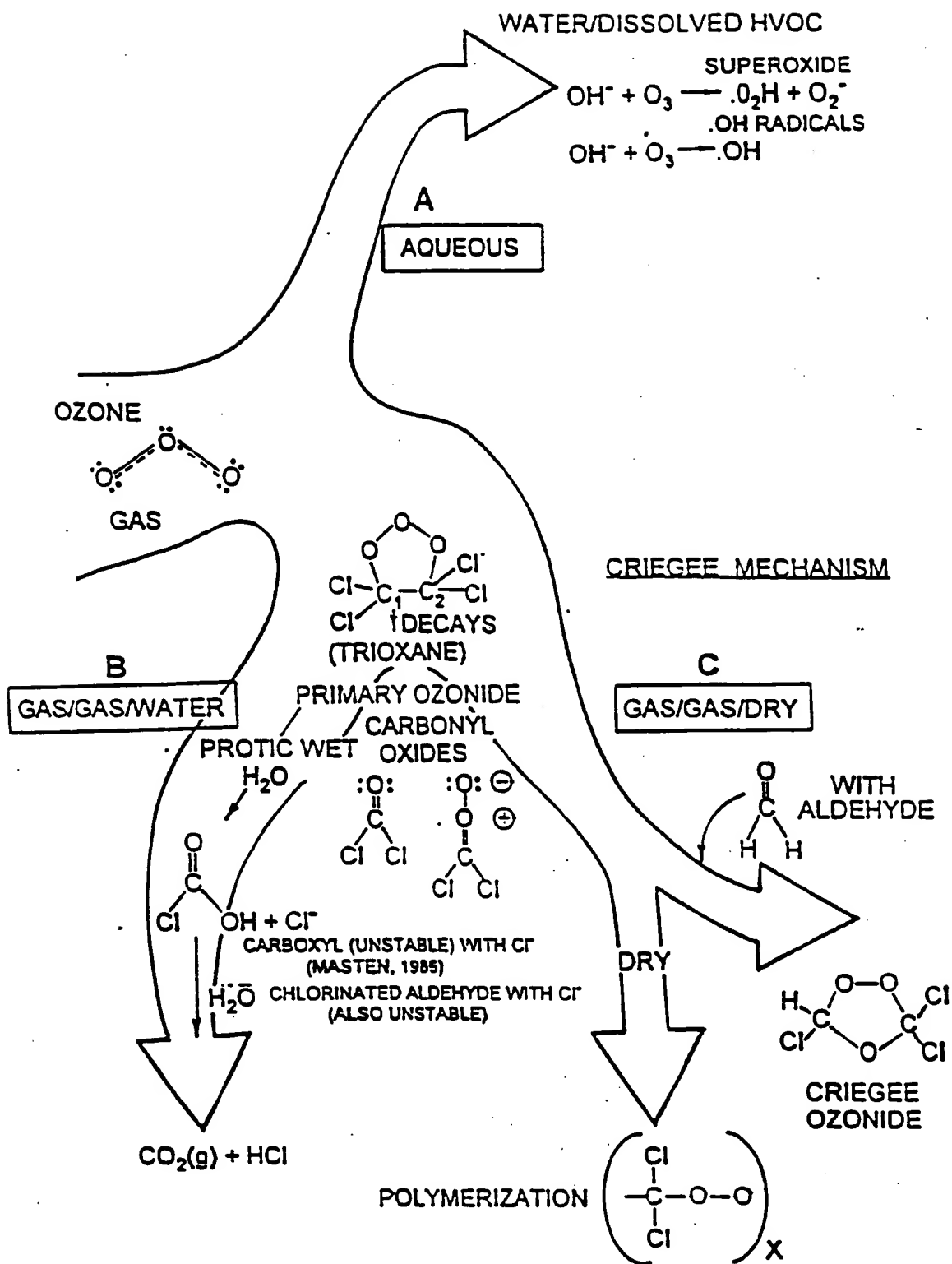


FIG. 34

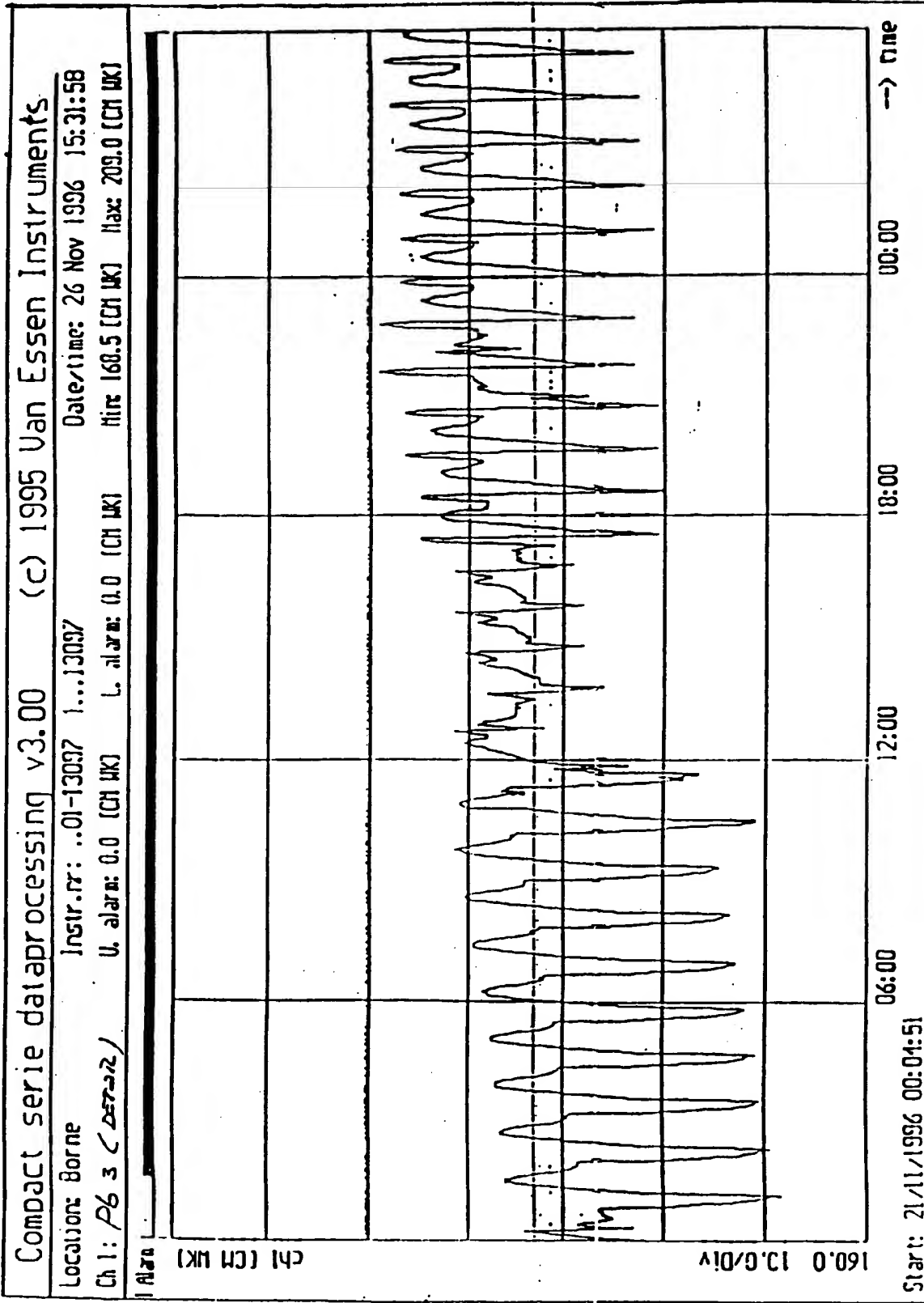
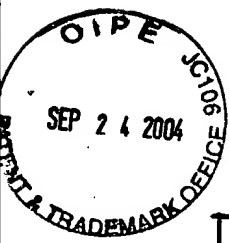


FIG. 36

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